



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Choi et al. Art Unit : 1616
Serial No. : 10/053,535 Examiner : Frank I. Choi
Filed : January 15, 2002
Title : CARBON MONOXIDE AS A BIOMARKER AND THERAPEUTIC AGENT

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Commissioner for Patents
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INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

Applicants wish to draw the Examiner's attention to Zhou et al., Section of Respiratory System Foreign Medical Sciences 19:187-187 (1999), cited on the attached Form PTO-1449 as Document AMM. This reference was cited by a foreign patent office in a foreign counterpart application.

This filing is being made with the filing of a Request for Continued Examination. No fee is required.

Respectfully submitted,

Date: 2/10/06


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Substitute Form PTO-1449
(Modified)U.S. Department of Commerce
Patent and Trademark OfficeAttorney's Docket No.
13681-003002Application No.
10/053,535**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR 1.98(b))

Applicant
Choi et al.Filing Date
January 15, 2002Group Art Unit
1616**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,053,590	10/11/1977	Bonsen et al.			
	AB	5,084,380	01/28/1992	Carney			
	AC	5,664,563	09/09/1997	Schroeder et al.			
	AD	5,731,326	03/24/1998	Hart et al.			
	AE	5,914,316	06/22/1999	Brown et al.			
	AF	6,069,132	05/30/2000	Revanker			
	AG	US 2003/0009127 A1	01/09/2003	Trescony et al.			
	AH	US 2003/0068387 A1	04/10/2003	Buelow et al.			
	AI	US 2004/0067261 A1	04/08/2004	Haas et al.			
	AJ	US 2004/0197271 A1	10/07/2004	Kunka et al.			
	AK	US 2005/0048133 A1	03/03/2005	Pinsky et al.			
	AL	US 2005/0250688 A1	11/10/2005	Pinsky et al.			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AM	2 816 212	05/10/2002	France			X	
	AN	WO 94/22482	10/13/1994	WIPO				
	AO	WO 99/47512	09/23/1999	WIPO				
	AP	WO 99/49880	10/07/1999	WIPO				
	AQ	WO 02/092075	11/21/2002	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AR	"Carbon Monoxide Poisoning – Symptoms," http://my.webmd.com/hw/home_health/aa7304.asp , 1 page, retrieved July 11, 2005
	AS	"Carbon Monoxide Poisoning – What Happens," http://my.webmd.com/hw/home_health/aa7326.asp , 1 page, retrieved July 11, 2005
	AT	Choi, "Heme Oxygenase-1 Protects the Heart," Circulation Research 89:105-7 (2001)
	AU	Clayton et al., "Inhaled carbon monoxide and hyperoxic lung injury in rats," Am. J. Physiol. Lung Cell Mol. Physiol. 281:L949-57 (2001)

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 13681-003002	Application No. 10/053,535
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR 1.98(b))		Applicant Choi et al.	
		Filing Date January 15, 2002	Group Art Unit 1616

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AV	"Colorectal Cancer Treatment: an Overview," American Cancer Society, http://www.cancer.org , 2 pages (2000)
	AW	Farrugia et al., "Heme oxygenase, carbon monoxide, and interstitial cells of Cajal," Microscopy Res. and Technique 47:321-324 (1999)
	AX	Fujita et al., "Paradoxical rescue from ischemic lung injury by inhaled carbon monoxide driven by derepression of fibrinolysis," Nature Medicine 7:598-604 (2001)
	AY	Huizinga, "Physiology and pathophysiology of the interstitial cell of Cajal: from bench to bedside. II. Gastric motility: lessons from mutant mice on slow waves and innervation," Am. J. Physiol. Gastrointest. Liver Physiol. 281:G1129-34 (2001)
	AZ	Kyokane et al., "Carbon Monoxide From Heme Catabolism Protects Against Hepatobiliary Dysfunction in Endotoxin-Treated Rat Liver," Gastroenterology 120:1227-40 (2001)
	AAA	Lee et al., "Intestinal Motility and Absorption in Acute Carbon Monoxide Poisoning," Seoul J. Med. 15:95-105 (1974) (English translation provided)
	ABB	Libby et al., "Chronic Rejection - Review," Immunity, 14:387-397 (2001)
	ACC	Liu et al., "Carbon monoxide and nitric oxide suppress the hypoxic induction of vascular endothelial growth factor gene via the 5' enhancer," J. Biol. Chem. 273(24):15257-62 (1998).
	ADD	Miller et al., "Heme oxygenase 2 is present in interstitial cell networks of the mouse small intestine," Gastroenterology 114:239-244 (1998)
	AEE	Moore et al., "Inhaled Carbon Monoxide Suppresses the Development of Postoperative Ileus in the Murine Small Intestine," Gastroenterology, 124:377-391 (2003)
	AFF	Moore et al., "Pre-treatment with Low Concentration of Carbon Monoxide (250 to 75 ppm) for 3 hr prior to Laparotomy Protects Against Postoperative Ileus," Digestive Disease Week Abstracts and Itinerary Planner 2003: Abstract No. M1337 (2003)
	AGG	Nachar et al., "Low-Dose Inhaled Carbon Monoxide Reduces Pulmonary Vascular Resistance During Acute Hypoxemia in Adult Sheep," High Altitude Medicine & Biology 2:377-385 (2001)
	AHH	Nakao et al., "Immunomodulatory effects of inhaled carbon monoxide on rat syngeneic small bowel graft motility," Gut 52:1278-85 (2003)
	AII	Otterbein et al., "Carbon monoxide at low concentrations causes growth arrest and modulates tumor growth in mice," Am. J. Respir. Crit. Care Med. 163, Abstract A476 (2001)
	AJJ	Otterbein et al., "Carbon Monoxide suppresses arteriosclerotic lesions associated with chronic graft rejection and with balloon injury," Nature Medicine 9:183-90 (2003)
	AKK	Pannen et al., "Protective Role of Endogenous Carbon Monoxide in Hepatic Microcirculatory Dysfunction after Hemorrhagic Shock in Rats," J. Clin. Invest. 102:1220-1228 (1998)
	ALL	Suganuma et al., "A new process of cancer prevention mediated through inhibition of tumor necrosis factor alpha expression," Cancer Res. 56(16):3711-5 (1996)
	AMM	Zhou et al., "Endogenous carbon monoxide and acute lung injury," Section of Respiratory System Foreign Medical Sciences 19:185-187 (1999) (English translation provided)
	ANN	Zuckerbraun et al., "Carbon monoxide attenuated the development of necrotizing enterocolitis in an animal model," Surgical Infection Society 3:83, Abstract 71 (2002)
	AOO	Zuckerbraun et al., "Carbon Monoxide Protects against Liver Failure through Nitric Oxide-induced Heme Oxygenase 1," J. Exp. Med., 198(11):1707-1716 (2003)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	